Rebuild Kit Instructions

2–WAY INTERNAL PILOT–OPERATED SOLENOID VALVE
NORMALLY CLOSED OPERATION — STEAM SERVICE
3/4 NPT — 1/2″ORIFICE

REBUILD KIT

No. 54186

Form No.V7434

NOTICE: See separate solenoid installation and maintenance instructions for information on: Wiring, Solenoid Temperature, Cause of Improper Operation and Coil Replacement.

MAINTENANCE

⚠ WARNING: To prevent the possibility of death, serious injury or property damage, turn off electrical power, depressurize valve, and vent fluid to a safe area before servicing the valve.

Note: It is not necessary to remove the valve from the pipeline for repairs.

INSTALLATION OF REBUILD KIT

Valve Disassembly (Refer to Figure 1)

1. Disassemble valve in an orderly fashion using exploded view for identification and placement of parts.
2. Remove solenoid, see separate instructions.
3. Unscrew solenoid base sub–assembly from valve body. Then remove core assembly with core spring, solenoid base gasket, body gasket and piston stop from valve body.
4. Insert a stiff wire, bent paper clip, or similar tool into the center hole (pilot orifice) of the piston assembly and dislodge piston assembly. Pull piston assembly with piston ring from valve body.
5. All parts are now accessible for cleaning or replacement. If parts are worn or damaged, install a complete rebuild kit.

⚠ CAUTION: To ensure proper valve operation, install all parts supplied in rebuild kit. Do not mix old and new parts.

Valve Reassembly

1. Lubricate solenoid base gasket with DOW CORNING® 200 Compound lubricant or an equivalent high–grade silicone fluid.
2. A flexible plastic sheet (Form No. V5661) is provided in the rebuild kit to aid in the installation of the piston assembly. Wrap the piston assembly with plastic sheet; be sure one edge of the sheet is even with the top of the piston assembly. Compress piston ring and place opposite end of plastic sheet into valve cavity. Slide piston assembly into cavity. Then remove and discard plastic sheet.

⚠ CAUTION: Do not damage piston ring or force piston assembly into valve.

3. Install piston stop with flared end up and body gasket with beveled side up in valve body.
4. Replace solenoid base gasket, core assembly with core spring and solenoid base sub–assembly. Hand thread solenoid base sub–assembly into valve body, then torque to 250 ± 25 in–lbs [28,3 ± 2,8 Nm].
5. Install solenoid. See separate instructions.

⚠ WARNING: To prevent the possibility of death, serious injury or property damage, check valve for proper operation before returning to service. Also perform internal seat and external leakage tests with a nonhazardous, noncombustible fluid.

6. Restore line pressure and electrical power supply to valve.
7. After maintenance is completed, operate the valve a few times to be sure of proper operation. A metallic *click* indicates the solenoid is operating.

ORDERING INFORMATION

FOR REBUILD KITS

Parts marked with an asterisk (*) in the exploded view are supplied in Rebuild Kits. When Ordering Rebuild Kits for valves, order the Rebuild Kit number stamped on the valve nameplate. If the number of the kit is not visible, order by indicating the number of kits required, and the Catalog Number and Serial Number of the valve(s) for which they are intended.

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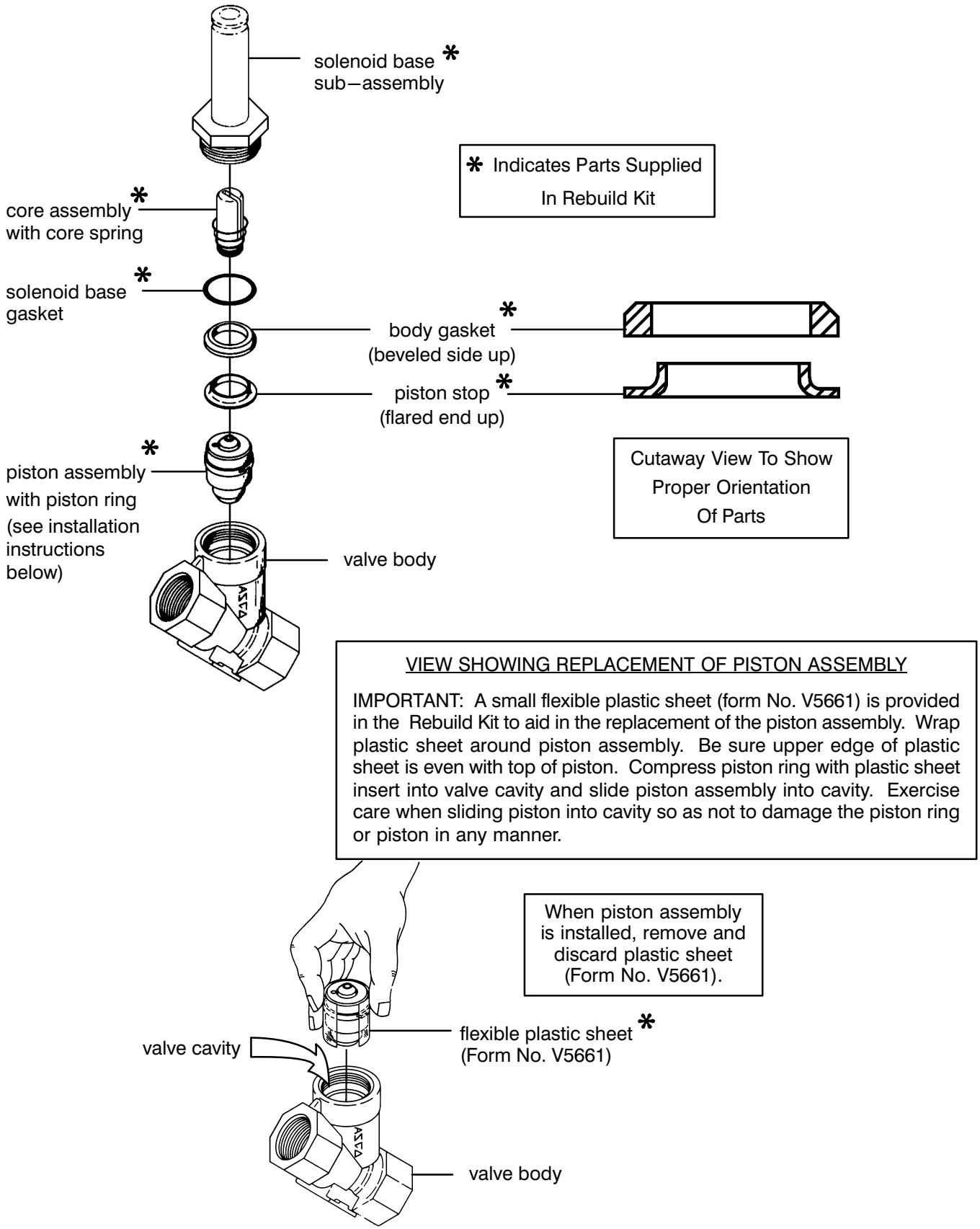
solenoid base sub−assembly *
* Indicates Parts Supplied In Rebuild Kit
core assembly with core spring *
solenoid base gasket *
body gasket * (beveled side up)
piston stop * (flared end up)
Cutaway View To Show Proper Orientation Of Parts
piston assembly with piston ring * (see installation instructions below)
valve body
VIEW SHOWING REPLACEMENT OF PISTON ASSEMBLY
IMPORTANT: A small flexible plastic sheet (form No. V5661) is provided in the Rebuild Kit to aid in the replacement of the piston assembly. Wrap plastic sheet around piston assembly. Be sure upper edge of plastic sheet is even with top of piston. Compress piston ring with plastic sheet insert into valve cavity and slide piston assembly into cavity. Exercise care when sliding piston into cavity so as not to damage the piston ring or piston in any manner.
When piston assembly is installed, remove and discard plastic sheet (Form No. V5661).
flexible plastic sheet * (Form No. V5661)
valve cavity
valve body

Figure 1. Valve without solenoid.

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